

Validated Soil/Sediment Levels Compared to Screening Levels

Metal levels in eleven sediment samples collected on August 11, 2015 from the Animas River do not exceed the Recreational Screening Levels that were adopted by Regions 6, 7, 8 to protect recreational users of the Animas River. Samples are 5 point composites. Each composited aliquot was collected from a depth of 0-2 inches and homogenized in the field. Course mineral fractions and biological material were removed to the extent practical in the field.

Table 1. Screening levels and number of exceedances of sediment collected on August 11, 2015 in the Animas River, Colorado

| Analyte | Recreational Screening Level (mg/kg) | Number of Recreational Screening Level Exceedances | Sediment Range (mg/kg dw) |
|------------------|--------------------------------------|--|---------------------------|
| | | | |
| Aluminum | 3,300,000 | 0 | 3720-7410 |
| Arsenic | 4200 | 0 | 3.69-21.7 |
| Barium | 670,000 | 0 | 58.3-167 |
| Beryllium | 6700 | 0 | nondetect |
| Cadmium | 1700 | 0 | 1.72-3.58 |
| Chromium (Total) | 4,300,000 | 0 | 2.53-6.18 |
| Cobalt | 1000 | 0 | 7.43-15.7 |
| Copper | 130000 | 0 | 36.8-82.9 |
| Iron | 2,300,000 | 0 | 10500-34700 |
| Lead | 20,000 | 0 | 86.8-496 |
| Manganese | 160,000 | 0 | 1300-3650 |
| Mercury | 1000 | 0 | 0.01-0.05 |
| Nickel | 67,000 | 0 | 4.68-11.6 |
| Thallium | 33 | 0 | Nondetect- 1.91 |
| Vanadium | 830 | 0 | 11-19.6 |
| Zinc | 50,000 | 0 | 566-1360 |